

PRODUCTION OF GOLD PARTICLE

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 Erfinder : HIRAKO MAMORU; others: 01
 Anmelder : TANAKA KIKINZOKU KOGYO KK
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PURPOSE: To produce gold particles having narrow distribution of particle sizes and large particle diameters by adding alkali hydroxide solution to water solution containing gold particles and gold iodide salt ion and precipitating the gold particles.

CONSTITUTION: The alkali hydroxide solution (potassium hydroxide, etc., having about 0.1-0.6 N concn.) is added to the water solution containing the gold particles as nucleus and gold iodide salt ion (gold potassium iodide, etc., having about 0.01-0.75 M/l concn.) and reacted at about 10-100 deg.C. By this method, the gold particles having larger particle size are obtd. and further by repeating this operation, the particle diameter can be made larger by larger.

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